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## CHAPTER REPORTS

### THE STANFORD CHAPTER

At the regular annual meeting of the Stanford Chapter, held in the Faculty Club House, May 2, 1912, a general reception and banquet was given to the newly elected members of the Society. Professor G. H. Marx, president of the Chapter, welcomed the new members on behalf of the Society, and President David Starr Jordan addressed the meeting on the Ideals of Sigma Xi.

The list of the officers elected for the ensuing year is given in the synopsis of chapter officers. In addition, the Chapter selected as electors: Austin Flint Rogers, Associate Professor of Mineralogy; John Fredrick Rogers, Associate Professor of Physics; Rennie Wilbur Doane, Assistant Professor of Entomology; Guido Hugo Marx, Professor of Mechanical Engineering, and Professor R. E. Swain.

#### NEW MEMBERS ELECTED.

Maxwell Adams, alumnus.

Professor of Chemistry, University of Nevada.

The reduction of copper sulphate with hydroxylamine: *Jour. Amer. Chem. Soc.*, vol. 31.

David Livingston Crawford, graduate student.

A contribution toward a monograph of the Delphacidae of America.

Ernest Charles Dickson, faculty member.

A further report on the production of experimental chronic nephritis in animals by the administration of uranium nitrate: *Archives Int. Med.*, vol. 9, May, 1912. Also other publications.

Thomas B. Freas, alumnus.

Assistant Professor of Chemistry, Columbia University.

Work in developing thermostats for chemical operations.

Charles Merrill Fulkerson, graduate student.

The influence of ether anesthesia upon the production of glycosuria. Thesis for A.M.

Eloise Jameson, graduate student.

A study of the cataphoresis and agglutination of bacteria and serum proteins. Thesis for A.M.

Carl Edward Johnston, undergraduate.

Internal anatomy of *Icerya purchasi*, *Annals Entom. Soc. Amer.*, vol. 5, December, 1912.

- John Andrew Koontz, Jr., graduate student.  
Corona studies. Thesis for E.E.
- William Noble Lacy, graduate student.  
Electrolytic refining of silver-bismuth alloys. Thesis for A.M.
- Robert Strong Lewis, graduate student.  
A problem in ore dressing. Thesis for E.M.
- Eugene G. McCann, graduate student.  
Corona studies. Thesis for E.E.
- Charles William Metz, graduate student.  
Studies on Japanese and Corean fishes.
- Dr. William Ophüls, faculty.  
Experimental nephritis in guinea pigs by subcutaneous injections of chromatis: Proc. of the Soc. Exper. Med., vol. 9, 1911. Also other publications.
- John Howard Paine, undergraduate.  
Several papers on Mallophaga and Anoplura.
- Ralph Carlton Pollock, graduate student.  
The influence of electrolytes on the cataphoresis of colloidal arsenious sulphide. Thesis for A.M.
- George Ezinha Postma, undergraduate.  
Daphllite (Todolite) from Tonopah, Nevada. Voelckerite, a new basic calcium phosphate. Remarks on chemical composition of apatite and phosphate rocks. A.F. Rogers, with analyses by G. E. Postma.
- Charles H. Richardson, Jr., undergraduate.  
Reptiles of the Lahonton Basin of Nevada.
- Henry Johnson Sears, graduate student.  
A study of the cataphoresis and agglutination of bacteria and serum proteins. Thesis for A.M.
- Stephen Taber, alumnus.  
Professor of Geology, University of South Carolina.  
Contributor to the California earthquake commission. Also other publications.
- Eugene C. Templeton, graduate student and instructor in Field Geology.  
Geology of the San Jose quadrangle for the U. S. Geological Survey. Also other publications.
- William Lester Walker, alumnus.  
Geological Expert of the U. S. Land Office.
- Florence Williams, graduate student.  
A morphological study of some members of the genus *Pallavicinia*. Thesis for A.M.

Hayes, Wilson Young, graduate student and instructor in Metallurgy.

Details of proposed crushing plant for the Queen Esther Mine, Mohave, California. Thesis for E.M.

L. R. ABRAMS, *Secretary*

#### THE KANSAS CHAPTER

The following have been elected to membership in Iota Chapter during the year:

H. A. Rice, Instructor in the Engineering School.

Repeated Stresses upon Reinforced Concrete Beams: *Kans. Univ. Engineering Bull.*, vol. 1.

N. P. Sherwood, Instructor in Bacteriology.

The Bacteriological Flora of Soda Water: *Jour. Indust. Chem.*, vol. III, No. 7.

Myrtle Greenfield, Assistant in Water Analysis.

The Histology of the Russian Thistle: *Kans. Univ. Science Bull.*

B. J. Clawson, Instructor in Botany.

The Anatomy of *Ganusia gracilis*; *Kans. Univ. Science Bull.*

Dwight Isely, graduate student.

The Taxonomy and Biology of Kansas Eumenidae: Thesis for A.M.

O. T. Wilson, graduate student.

The Histology of Alfalfa. Thesis for A.M.

Irene McCulloch, undergraduate (will also take Master's Degree).

A Parasitic Flagellate of a Hemipteron. Thesis for A.M.

Inez Smith, undergraduate member.

The Ciliates of Kansas (to be published in *Kansas Univ. Sci. Bul.*)

Edison Belt, undergraduate member.

Calibration of Instrument Transformers: Senior thesis.

Trueman Godfrey, undergraduate member.

Electrical Conductivity as Applied to Water Analysis. Senior thesis.

Chas. F. Helm, undergraduate member.

An Investigation of an Irrigation project. Senior thesis.

Amos D. Johnson, undergraduate member.

An Examination of the Ventilating System of the Kansas State Mine. Senior thesis.

Earl S. Rush, undergraduate member.

Efficiency of Universal Joints. Senior thesis.

- E. A. Van Houten, undergraduate member.  
 A Design of a Hydro-Electric Plant. Senior thesis.
- R. J. Bodman, and Clarke I. Dodds, undergraduate members.  
 The Effect of the Addition of Lime to Concrete. Joint senior thesis.
- S. S. Schooley, and W. D. Thompson, undergraduate members.  
 Efficiency Test of an Electric Light Plant.
- W. J. BAUMGARTNER, *Corresponding Secretary*

## THE PURDUE CHAPTER

During the year the Chapter has held the following open meetings: December 7th, 1912; Time and Its Measurement, by Prof. C. R. Moore, of the School of Electrical Engineering, Purdue University. January 17th, 1913; Recent Study of the Stars, by Dr. George C. Comstock, Director Washburn Observatory, University of Wisconsin. March 15th, 1913; Design of Automobile, Railroad, Marine and Lighthouse Lenses and Mirrors, by Prof. H. S. Hower of the Carnegie Institute of Technology. At a business meeting held March 6th, 1913, Dean C. H. Benjamin was elected Councilor of the Purdue Chapter.

- The following members were elected to Sigma Xi, June, 1912:
- H. C. Peffer, Professor Chemical Engineering.  
 Numerous important chemical discoveries.
- C. R. Orton, Assistant Botanist, Agricultural Experiment Station.  
 Disease Resistance in Varieties of Potatoes. Ind. Acad. Sci.  
 Also other publications.
- R. C. Fielding, undergraduate member.  
 Investigation of Effect of Superheat on Locomotive Performance. Senior thesis. B.S. in M.E., 1912.
- H. A. Huehotter, undergraduate member.  
 A Study of Design of Shear Frames. Senior thesis, B.S. in M.E., 1912.
- P. C. Thompson, undergraduate member.  
 The Design of Low Pressure Turbine for LaFayette Box Board Works. Senior thesis, B.S. in M.E., 1912.
- G. C. Appel, undergraduate member.  
 A Predetermination of Alternator Regulation from the Flux Distribution Curves. Senior thesis. B.S. in E.E., 1912.
- L. H. McKinzie, undergraduate member.  
 Research work with Geo. Cutter Co. of South Bend, Ind.  
 Comparative Tests of Streethoods. Senior thesis. B.S. in E.E., 1912.

- D. H. Rose, undergraduate member.  
A Study of a New Alternator Regulator. Senior thesis. B.S. in E.E., 1912.
- O. L. Canfield, undergraduate member.  
Distribution of Wind Forces on Mill Buildings. Senior thesis. B.S. in C.E., 1912.
- W. G. Kemmerer, undergraduate member.  
Flow of Water Over Various Types of Dams. Senior thesis. B.S. in C.E., 1912.
- E. W. Lane, undergraduate member.  
Flow of Water Over Various Types of Dams. Senior thesis. B.S. in C.E., 1912.
- C. A. Ludwig, undergraduate member.  
Fungus Diseases of Sweet Potatoes in Indiana. Senior thesis. B.S.A., 1912.
- F. E. Robbins, undergraduate member.  
A Study of the Effect of Mechanical Pollination Upon Clover Seed Production. Senior thesis. B.S. in A., 1912.
- C. FRANCIS HARDING, *Recording Secretary*

#### THE INDIANA CHAPTER

The Indiana University Chapter of Sigma Xi, organized in 1904, has now an active membership of thirty-nine and an alumni membership of seventy-two. The chapter holds regular meetings, the main feature of each meeting being an address by some member on a scientific subject, usually giving the results of original research. Following the address, there is always an informal social session, which affords the members an excellent opportunity for the discussion of scientific questions and other matters of interest to the chapter and the university in general. Occasionally an open meeting is held, addressed by some guest from another institution.

The chapter does not elect seniors to membership. Since the sending in of the list of members for the Quarter Century Record and History, the following persons have become members:

Hal P. Bybee, graduate student.

Fauna of the Permian of the Western Mississippi Valley.  
Thesis for A.M.

Darman Artelle Rhinehart, graduate student.

Nerve endings in the thyroid and parathyroid bodies. Thesis for A.M.

Clayton Ulrey, graduate student.

On the ultra-microscope. Thesis for A.M.

Dayton Ulrey, graduate student.

On the absorption of light by ionized gases. Thesis for A.M.

Cora B. Hennel, graduate student.

Certain transformations and invariants connected with general linear homogeneous difference equations and other functional equations. Thesis for Ph.D.

Hugh Everett Brown, graduate student.

Variation with light of the temperature conductivity on selenium. Thesis for A.M.

William F. Book, Professor of Educational Psychology. Faculty member.

The psychology of skill with special reference to its acquisition in typewriting. Univ. Mont. Studies in Psych. 1, pp. 1-18. Also other publications.

Elmer E. Jones, Professor of the History of Education. Faculty member.

A study of association in children of the elementary schools. School Rev. Monograph, No. 3, Feb. 1913. Also other publications.

Clarence Edmondson, graduate student.

The effect of thyroid and thymus feeding on growth and reproduction. Thesis for Ph.D.

CORA B. HENNEL, Secretary.

### THE ILLINOIS CHAPTER

The University of Illinois Chapter of Sigma Xi has held regular monthly meetings during the academic year. The program usually consists of general scientific lectures or papers in which members summarise their investigations, of talks on the lives of prominent scientists, or of reports of scientific conventions. Occasionally scientists from other institutions address the society, usually in open meeting. At Illinois the idea prevails that Sigma Xi should give its members an opportunity to become acquainted with the scientific work that each is doing and should stimulate scientific activity among its members.

The October meeting was devoted to the life of Henri Poincaré. Professor J. B. Shaw of the mathematical department read a paper entitled, Henry Poincaré as an Investigator. Dr. Emil Borel, Professor of the Theory of Functions, University of Paris, and Vice-Director of the Higher Normal School of France, spoke on the personality and work of his colleague, the late Professor Poincaré.

In December was held the only public meeting of the academic year, when Dr. Casey A. Wood of Chicago gave a remarkable illustrated lecture on The Eyes and Eyesight of the Lower Animals. This meeting was introduced by a short illustrated Preliminary Announcement of the Crocker Land Expedition, by W. E. Ekblaw of the geological department of the University; Mr. Ekblaw is to be a member of this expedition.

Other addresses during the academic year have been: The Origin of Coal, by E. C. Jeffrey, Professor of Plant Morphology at Harvard University, elucidating Dr. Jeffrey's theory regarding the formation of coal.

Coal Investigations at the University of Illinois, by F. A. DeWolfe, Director of the Illinois State Geological Survey, illustrated by charts and lantern slides.

Edward Strasburger, Teacher and Investigator, by C. F. Hottes, Professor of Botany, University of Illinois, a former student of the late Professor Strasburger.

Mechanical Production of Cold, by C. R. Richards, Professor of Mechanical Engineering, University of Illinois.

Observations on Work in Physics in Germany, by F. R. Watson, Assistant Professor of Physics, University of Illinois.

Some European Chemists and their Laboratories, by W. A. Noyes, Director of the Chemistry Department, University of Illinois. Professor Noyes also reviewed the work of the International Association of Chemical Societies held at Berlin, Germany, in April, 1912, at which he represented the American Chemical Society.

The following faculty members were elected to membership: W. E. Burge, Assistant Professor of Physiology.

The Rate of the Destruction of Ptyalin by the Passage of the Direct Electric Current. *Amer. Jour. Physiol.*, Feb., 1913.  
Paul Hanson, Associate in Sanitary Engineering and Engineer for the State Water Survey.

Control of Steam Pollution. *Ill. Acad. Sci.*, Feb., 1913.  
Jacob Kunz, Assistant Professor of Physics.

Photoelektrische Indicatoren für electromagnetische Wellen. *Jahrb. f. drahtlose Teleg.*, 1912.

A. B. McDaniel, Assistant Professor of Civil Engineering.

Excavating Machinery. Text-book. McGraw-Hill Co.

H. C. P. Weber, Associate in Chemistry.

The Atomic Weight of Bromide. *Jour. Amer. Chem. Soc.*, vol. 34, p. 1294, 1912.

The annual election of members has not yet been held in the Illinois Chapter.

C. G. DERICK, Secretary.